



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101722,903
Source: IFWJ
Date Processed by STIC: 8/19/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/722,903</u>
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ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences
- 8 Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
- 10 Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/722,903

DATE: 08/19/2004
TIME: 10:59:18

Input Set : A:\GTC-53_Sequence Listing.txt
Output Set: N:\CRF4\08192004\J722903.raw

3 <110> APPLICANT: GTC Biotherapeutics, Inc.
5 <120> TITLE OF INVENTION: Modified Antibodies Stably Produced in Milk and Methods of
6 Producing Same
8 <130> FILE REFERENCE: GTC-53
10 <140> CURRENT APPLICATION NUMBER: 10/722,903
11 <141> CURRENT FILING DATE: 2003-11-26
13 <150> PRIOR APPLICATION NUMBER: US 60/429,606
14 <151> PRIOR FILING DATE: 2002-11-27
16 <160> NUMBER OF SEQ ID NOS: 11
18 <170> SOFTWARE: PatentIn version 3.2
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 2028
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: misc_feature
28 <223> OTHER INFORMATION: Human Ig germline H-chain G-E-A region B: gamma-4 constant
29 region, 3' end
31 <400> SEQUENCE: 1
32 agctttctgg ggcaggccgg qcctgacttt ggctgggggc agggaggggg ctaaggtgac 60
34 gcaggtggcg ccagccagg gcacacccaa tgcccatgag cccagacact ggaccctgca 120
36 tggaccatcg cggatagaca agaaccgagg ggcctctgct ccctggggcc agctctgtcc 180
38 cacaccggcg tcacatggca ccacctctt tgcagcttcc accaaggggcc catccgtt 240
40 cccctggcg ccctgttcca ggagcacctc cgagagcaca gccggccctgg gctgctgg 300
42 caaggactac ttcccccgaac cggtgacggt gtcgtggaa tcaggcgccc tgaccagcgg 360
44 cgtgcacacc ttcccggtg tcctacagtc ctcaaggactc tactccctca gcagcgtggt 420
46 gaccgtgccc tccagcagtt tgggcacgaa gacctacacc tgcaacgtag atcacaagcc 480
48 cagcaacacc aagggtggaca agagagttgg tgagaggcca gcacagggag ggaggggtgtc 540
50 tgcttggaa caggctcagc cctctgttcc ggacgcaccc cggctgtgca gccccagccc 600
52 agggcagcaa ggcatgcccc atctgttcc tcacccggag gcctctgacc accccactca 660
54 tgctcaggga gagggcttcc tggattttc caccaggctc cccggaccac aggctggatg 720
56 cccctacccc aggccctgctc catacaggcc aggtgctgct ctcagacactg ccaagagcca 780
58 tatccggag gaccctgccc ctgacctaag cccacccaa aggccaaact ctccactccc 840
60 tcagctcaga caccttctt cctccagat ctgagtaact cccaatctt tctctgtcaga 900
62 gtccaaatat ggtccccat gcccattatg cccaggtaag ccaacccagg cctcgccctc 960
64 cagctcaagg cgggacagg ggccttagagt aacctgcattc cagggacagg ccccagccgg 1020
66 gtgctgacgc atccacccctt atcttttcc cagcacctga gttctgggg ggaccatcat 1080
68 tcttcgtt ccccccggaaa cccaggaca ctctcatgtat ctccggacc cctgagggtca 1140
70 cgtgcgttgt ggtggacgtg agccaggaaag accccgaggt ccagttcaac tggtaacgtgg 1200
72 atggcgttga ggtgcataat gccaagacaa agccgcggga ggagcagttc aacagcacgt 1260
74 accgtgttgtt cagcgccctc accgttccgc accaggactg gctgaacggc aaggagttaca 1320
76 agtgcacagg ctccaaacaaa ggcctccgt cctccatgca gaaaaccatc tccaaagcca 1380
78 aagggtggac ccacgggggtg cgagggccac acggacagag gccagctcg cccaccctct 1440

Does Not Comply
Corrected Diskette Needed
(pg. 2-4)

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Input Set : A:\GTC-53_Sequence Listing.txt

Output Set: N:\CRF4\08192004\J722903.raw

163 <210> SEQ ID NO: 6
 164 <211> LENGTH: 65
 165 <212> TYPE: DNA
 166 <213> ORGANISM: Homo sapiens
 169 <220> FEATURE:
 170 <221> NAME/KEY: misc_feature
 171 <223> OTHER INFORMATION: IgG4 Hinge Region Nucleic Acid
 173 <400> SEQUENCE: 6

174 cttctctctg cagagtccaa atatggtccc ccatgccat catgcccagg tccgccaacc	60
176 caggc	65

179 <210> SEQ ID NO: 7
 180 <211> LENGTH: 12
 181 <212> TYPE: PRT
 182 <213> ORGANISM: Homo sapiens
 185 <220> FEATURE:
 186 <221> NAME/KEY: misc_feature
 187 <223> OTHER INFORMATION: IgG4 Hinge Region Amino Acid
 189 <400> SEQUENCE: 7

191 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
 192 1 5 10

195 <210> SEQ ID NO: 8	8
196 <211> LENGTH: 65	
197 <212> TYPE: DNA	
198 <213> ORGANISM: Homo sapiens	
201 <220> FEATURE:	
202 <221> NAME/KEY: misc_feature	
203 <223> OTHER INFORMATION: IgG2 Hinge Region Nucleic Acid	
205 <400> SEQUENCE: 8	

206 cttctctctg cagagcgcaa atgttgtgtc gagtgccac cgtgcccagg tccgccaacc	60
208 caggc	65

211 <210> SEQ ID NO: 9
 212 <211> LENGTH: 12
 213 <212> TYPE: PRT
 214 <213> ORGANISM: Homo sapiens
 217 <220> FEATURE:
 218 <221> NAME/KEY: misc_feature
 219 <223> OTHER INFORMATION: IgG2 Hinge Region Amino Acid
 221 <400> SEQUENCE: 9

223 Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
 224 1 5 10

227 <210> SEQ ID NO: 10	10
228 <211> LENGTH: 33	
229 <212> TYPE: DNA	
230 <213> ORGANISM: oligonucleotide	
233 <220> FEATURE:	
234 <221> NAME/KEY: misc_feature	
235 <223> OTHER INFORMATION: Oligo 2014 Nucleic Acid	
237 <400> SEQUENCE: 10	

238 gagaggcagt tccagtctac ttaccgagtg gtc

33

SAME error

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/722,903

DATE: 08/19/2004
TIME: 10:59:18

Input Set : A:\GTC-53_Sequence Listing.txt
Output Set: N:\CRF4\08192004\J722903.raw

241 <210> SEQ ID NO: 11
242 <211> LENGTH: 11
243 <212> TYPE: PRT
244 <213> ORGANISM: oligonucleotide
247 <220> FEATURE:
248 <221> NAME/KEY: misc_feature
249 <223> OTHER INFORMATION: Oligo 2014 Amino Acid
251 <400> SEQUENCE: 11
253 Glu Glu Gln Phe Gln Ser Thr Tyr Arg Val Val
254 1 5 10

same error

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/722,903

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Output Set: N:\CRF4\08192004\J722903.raw